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#### NOTICE OF ALLOWANCE AND FEE(S) DUE

 21831
 7590
 646002009
 EXAMINER

 Cozen O'Connor
 MIDKIIT, ANASTASIA

 250 PARK AVIENUE
 ARTUNT
 PAPER NUMBER

 NEW YORK, NY 10177
 5851

DATE MAILED: 06/08/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.				
10/537,334	06/02/2005	Pekka Strommer	PLA077-825508	3452				
TITLE OF INVENTION: DIGITAL IMAGING METHOD AND APPARATUS FOR MAMMOGRAPHY								

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/08/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	ed below or directed oth	ng the Patent, advance of nerwise in Block 1, by (	orders and notification a) specifying a new or	of m	naintenance fees w pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corre rate "	spondence address as TEE ADDRESS" for
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APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CO	NFIRMATION NO.
10/537,334	06/02/2005		Pekka Strommer			P	LA077-825508		3452
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nonprovisional	NO	\$1510	\$300	_	\$0		\$1810		09/08/2009
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MIDKIFF, A		2882	378-037000 2. For printing on t						
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.	nge of Correspondence  Indication form and Use of a Customer	or agents OR, alter (2) the name of a s registered attorney 2 registered patent listed, no name wil	the names of up to 3 registered patient attorneys  genst OR, alternatively, the name of a single firm (having as a member a  genstered attorney or agent) and the names of up to  d, no name will be printed.						
3. ASSIGNEE NAME A PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSIGNAME Please check the appropri	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee detion of this form is NC	data will appear on the control of t	he pa g an a	atent. If an assignous assignment. and STATE OR C	OUNT			
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NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademarl	ed from anyone other th k Office.	nan th	ne applicant; a regis	stered a	attorney or agent; or th	ie assi	gnee or other party in
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#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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APPLICATION N	10.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/537,334		06/02/2005	Pekka Strommer	PLA077-825508	3452			
21831	7590	06/08/2009		EXAMINER				
Cozen O"Co	onnor			MIDKIFF, ANASTASIA				
250 PARK AVENUE NEW YORK, NY 10177				ART UNIT PAPER NUMBER 2882				

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## Application No. Applicant(s) 10/537.334 STROMMER ET AL. Notice of Allowability Examiner Art Unit ANASTASIA MIDKIFF 2882 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to Applicant Amendment filed 27 May 2009. 2. The allowed claim(s) is/are 1-29 and 31. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some\* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material

/Anastasia Midkiff/ Examiner, Art Unit 2882 9. ☐ Other .

Application/Control Number: 10/537,334

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### ATTACHMENT TO NOTICE OF ALLOWABILITY

#### Allowable Subject Matter

Claims 1-29 and 31 are allowed.

The following is an examiner's statement of reasons for allowance:

With respect to Claim 1, the prior art of record teaches many of the elements of the claimed invention, including a digital mammography method, comprising the steps of: using at least one sensor to detect radiation that has passed through an object, wherein the at least one sensor contains at least one sensor module and wherein the at least one sensor module contains one or more pixel columns which receive image data: arranging the object to be imaged in a compression structure that is essentially motionless, the compression structure comprising an essentially plane-like upper compression paddle and an essentially plane-like lower compression paddle or a shelf having an essentially plane-like top surface; scanning across said object with a beam which originates from a radiation source having a focus, the focus of the radiation source being essentially motionless in space, the beam being limiting to be narrower than the object to be imaged and adapted essentially to an active surface of the at least one sensor; moving the at least one sensor in synch with the scanning movement of the beam while at the same time the active surface is kept essentially at right angles to the beam on a plane formed by the scanning movement of the beam, wherein the movement of the at least one sensor is implemented by continuously adjusting the distance of the at least one sensor from the radiation source in such a way that the

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trajectory of the at least one sensor underneath said breast is an essentially linear movement in the direction of the scanning movement of the beam.

However, prior art fails to teach or fairly suggest the method wherein said scanning with a beam takes place in a continuous fashion while keeping the said active sensor surface essentially at right angles to the beam on a plane formed by a linear scanning movement, in the manner required by Claim 1.

With respect to Claim 16, the prior art of record teaches many of the elements of the claimed invention, including a digital mammography imaging apparatus, which includes: a radiation source having a focus, the focus of the radiation source being essentially motionless in space; a sensor arrangement for detecting radiation, which arrangement contains at least one sensor formed of at least one or more sensor modules, said at least one sensor module containing one or more pixel columns which receive image data; a compression structure for positioning an object to be imaged, located within the area between the radiation source and the sensor arrangement, the compression structure comprising an essentially plane-like upper compression paddle and an essentially plane-like lower compression paddle or a shelf having an essentially plane-like top surface; means for limiting a beam from the radiation source essentially according to an active sensor surface of the said sensor arrangement; means for scanning across said object with a beam which originates from the radiation source: and, means for moving the said at least one sensor which belongs to the sensor arrangement in synch with the scanning movement of the beam; wherein the imaging apparatus includes means for continuously adjusting the distance of the at least one

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sensor from the radiation source in a way that the trajectory of the at least one sensor in the direction of the scanning movement of the beam becomes essentially linear and takes place beneath the lower compression paddle or beneath the top surface of the shelf.

However, prior art fails to teach or fairly suggest the apparatus wherein said means for scanning with a beam is capable of scanning in a continuous fashion while keeping the said active sensor surface essentially at right angles to the beam on a plane formed by a linear scanning movement, in the manner required by Claim 16.

Claims 2-15, 17-29, and 31 are allowed by virtue of their dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANASTASIA MIDKIFF whose telephone number is (571)272-5053. The examiner can normally be reached on M-F 7-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Glick can be reached on 571-272-2490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2882

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. M./ Examiner, Art Unit 2882 05/27/09

/Edward J Glick/ Supervisory Patent Examiner, Art Unit 2882